

Title (en)

METHOD AND SYSTEM FOR ENHANCING START OF A TURBINE ENGINE, AND IGNITION MODULE

Title (de)

VERFAHREN UND SYSTEM FÜR DEN VERBESSERTEN START EINES TURBINENMOTORS UND ZÜNDUNGSMODUL

Title (fr)

PROCEDE ET SYSTEME POUR AMELIORER LE DEMARRAGE D'UN MOTEUR A TURBINE, ET MODULE D'ALLUMAGE

Publication

EP 2262994 A2 20101222 (EN)

Application

EP 09719051 A 20090309

Priority

- IL 2009000264 W 20090309
- IL 19010308 A 20080311

Abstract (en)

[origin: WO2009113058A2] A method, a system, and a product for enhancing the start of a turbine engine by providing a replaceable ignition module (57) including a solid combustible substance, that when ignited, or a solid oxidizer substance, that when heated, releases hot gases rich in oxidizing species. The module includes a solid substance(s) appropriately selected as: a solid-propellant grain (SPG) and a solid oxidizer (SO); or an oxygen-rich burning substance (OBSS); or a solid-propellant grain and an oxygen-rich burning substance; or an oxygen-rich burning solid substance and a solid oxidizer. The replaceable module further contains an initiator (67) for the initiation of the solid combustible substance, or solid-propellant grain by an initiation command (IC). The hot gases released by the ignition module start and enhance the combustion process of the air-and-fuel mixture by successive fuel heating and vaporization, followed by ignition.

IPC 8 full level

F02C 7/272 (2006.01)

CPC (source: EP US)

F02C 7/264 (2013.01 - EP US); **F02C 7/272** (2013.01 - EP US); **F05D 2230/80** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

WO 2009113058 A2 20090917; WO 2009113058 A3 20101104; EP 2262994 A2 20101222; IL 190103 A0 20090504; IL 190103 A 20140227; US 2010326086 A1 20101230; US 8783009 B2 20140722

DOCDB simple family (application)

IL 2009000264 W 20090309; EP 09719051 A 20090309; IL 19010308 A 20080311; US 87922710 A 20100910